

What is claimed is:

1. A voice recognition apparatus comprising:

an input unit for inputting a voice uttered by a speaker;

a signal processor for splitting a sound signal input  
5 by said input unit to generate acoustic data;

a language model generation and storage section for storing a plurality of phoneme models; and

a voice recognition processor for comparing the generated acoustic data with a plurality of word acoustic  
10 data stored in said language model generation and storage section and outputting identification information including a word identifier of matching word acoustic data as a result of voice recognition; and

a display unit for displaying the recognition result,  
15 wherein said voice recognition processor sequentially compares acoustic data split by said signal processor with the word acoustic data generated from the phoneme model stored in said language model generation and storage section, and stores the word identifier of the word  
20 acoustic data corresponding to the generated acoustic data, which match the word acoustic data, as a training signal.

2. The voice recognition apparatus according to claim 1,

wherein

said voice recognition processor outputs word data corresponding to the name of the distant party who calls in progress and a word identifier to distinguish the word to  
5 said language model generation and storage section, outputs an acoustic data identifier with high degree of coincidence and acoustic data corresponding to the acoustic data identifier to said language model generation and storage section, and stores the generated acoustic data which are  
10 united in the form of a sequence of data in time.

3. The voice recognition apparatus according to claim 1, wherein

said signal processor comprises a memory section for storing words which precedes and follows the name, wherein  
15 the word which precedes the name is assumed as a start signal and the word which follows the name is assumed as an end signal.

4. The voice recognition apparatus according to claim 3,  
20 wherein

said signal processor stores a dead space which exists before the name in Japanese without exception in the memory section and detects the dead space to assume the dead space as a start signal.

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5. The voice recognition apparatus according to claim 4,  
wherein

said signal processor comprises a detector section  
for detecting a dead space and a controller for assuming  
5 the detected dead space as a start signal.

6. The voice recognition apparatus according to claim 5,  
wherein

said signal processor provides a threshold level for  
10 detecting a dead space in said detector section.

7. The voice recognition apparatus according to claim 1,  
wherein

said voice recognition processor separately stores  
15 first section of a word and remaining section of the word  
into a word dictionary storage section and groups together  
words beginning with said first section.

8. The voice recognition apparatus according to claim 7,  
20 wherein

said voice recognition processor previously generates  
a word acoustic data of a first character from the first  
section in said word dictionary storage section and the  
phoneme model to store to the language model generation and  
25 storage section.

9. The voice recognition apparatus according to claim 7,  
wherein

5 said voice recognition processor splits a word  
dictionary into blocks of a first character, a family name  
and a first name.

10. A voice recognition apparatus comprising:

an input unit for inputting a voice uttered by a  
10 speaker;

a signal processor for splitting a sound signal input  
by said input unit to generate acoustic data;

a language model generation and storage section for  
storing a plurality of phoneme models; and

15 a voice recognition processor for comparing the  
generated acoustic data with a plurality of word acoustic  
data stored in said language model generation and storage  
section and outputting identification information including  
a word identifier of matching word acoustic data as a  
20 result of voice recognition; and

a display unit for displaying the recognition result,  
wherein said voice recognition processor sequentially  
compares word acoustic data stored in said language model  
generation and storage section and acoustic data generated  
25 from a name uttered by the speaker and gives a frequency

"1" to word acoustic data having the highest degree of coincidence output from a word identification section when used for each word acoustic data stored in said language model generation and storage section, and adds up each time  
5 of using to perform weighting.

11. The voice recognition apparatus according to claim 10, wherein

said voice recognition processor uses only word  
10 acoustic data whose frequency is equal to or higher than an arbitrary degree to perform recognition operation.

12. The voice recognition apparatus according to claim 10, wherein

15 said voice recognition processor splits word acoustic data into blocks of arbitrary number of words in the descending order of use frequency, outputs word acoustic data of block of which use frequency is high, and displays block by block.

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13. The voice recognition apparatus according to claim 10, wherein

said signal processor has a clock function and said voice recognition processor provides a time limit for  
25 calculating the use frequency based on a time reported from

said signal processor.

14. The voice recognition apparatus according to claims 1, wherein

5       said signal processor, in a case that the result displayed on the display unit after recognition operation differs from a result the user intends, stores a information showing the difference into a built-in memory, and skips the display of a word once erroneously recognized  
10 based on the information showing the difference in a case that the same word is uttered.

15. The voice recognition apparatus according to claims 1, wherein

15       said signal processor, in a case that the result displayed on the display unit after recognition operation differs from a result the user intends, stores a information showing the difference into a memory section of said voice recognition processor, and skips the display  
20 of a word once erroneously recognized based on the information showing the difference in a case that the same word is uttered.

16. A voice recognition apparatus comprising:

25       an input unit for inputting a voice uttered by a

speaker;

a signal processor for splitting a sound signal input by said input unit to generate acoustic data;

a language model generation and storage section for  
5 storing a plurality of phoneme models; and

a voice recognition processor for comparing the generated acoustic data with a plurality of word acoustic data stored in said language model generation and storage section and outputting identification information including  
10 a word identifier of matching word acoustic data as a result of voice recognition; and

a display unit for displaying the recognition result,  
wherein said language model generation and storage section stores a specific word of each country into a word  
15 dictionary storage section.